



# Investing Strongly in Clean Hydrogen Research

117<sup>th</sup> Congress

House Sponsors: Reps. Paul Tonko (D-NY) & Stephanie Bice (R-OK)

*"When we invest in clean hydrogen, we invest in a stronger, healthier, more competitive nation."*

❖ Paul Tonko

## Hydrogen is critical to decarbonization

- Clean hydrogen is an important climate solution for several difficult-to-decarbonize sectors, such as chemical & metals production, long-haul shipping, and heavy-duty transportation.
- Hydrogen could supply up to 14% of global energy demand by 2050, requiring a 530% increase over current production levels and fueling **3.4 million US jobs**.

## Fuel Cells will transform the 21<sup>st</sup> century clean energy economy

- Fuel cells are the most energy efficient devices for extracting power from fuels; they are not only pollution-free but can have more than two times the efficiency of traditional combustion technologies.
- Boosting R&D to reduce costs and improve durability will continue the evolution of fuel cells and hydrogen into commercially viable technologies.

## Congress can take action NOW!

### The Department of Energy Clean Hydrogen and Fuel Cell Research, Development and Demonstration Act of 2022 will:

- ❖ Authorize a series of programs and activities at the Department of Energy (DOE) to conduct research, development, and demonstration programs relevant to hydrogen and fuel cell technologies, including:
  - Improving stationary fuel cells to achieve greater than 80,000 hours of durability;
  - The development of advanced computer modeling to optimize energy system operation for clean hydrogen production in different electricity markets;
  - R&D to improve the use of hydrogen and hydrogen blends in the production of iron, steel, cement, fertilizer, chemicals, and energy-dense fuels; and
  - Establishing a national Hydrogen Innovation Center to focus on fundamental research and development activities.

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